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virtual mapping updating cache tags

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Each cache tag comprises a truncated virtual address identifying the ... For updating the cache memory 16, the control flow of the cache control logic is ...

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When different virtual addresses map to the same physical address, Even when synonyms are prevented, caches with virtual tags must be flushed at times ...

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For a virtual cache, the tag and index are derived from the virtual address of Because the first and second virtual addresses map to the same physical ...

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updating said destination virtual address with said new value on said cache miss and changing said data cache tag for a currently accessible virtual address ...

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This secondary mapping function is applied only when the cache access based on ... from the virtual address, is a miss. The secondary mapping... (Update) ...

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Since page tables contain a mapping for every virtual page, no tags are required. nightmare for update: must update all cache entries with same ...

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current write tag check & previous write cache update overlap; Pipeline affects only ... Two different virtual addresses map to the same physical address ...

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additionally has cache tags derived from the virtual address. While this type of design solved by the write—allocate cache update policy and by ...

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Two different virtual addresses map to same physical address ... Pipeline Tag Check and Update Cache as separate stages; current write tag check & previous ...

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The problem of physical tag-store lookups of virtual caches is that. virtual addresses might map differently to the cache than its corre- ...

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